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ABSTRACT

In a previous study, (ED 038 175) Mississippi children, who were a year younger (3 1/2 to 4 1/2) than Alabama children, had scored higher than the Alabama children on posttesting. This supplementary report gives the results of further investigation of this finding. Explanations may be: (1) the younger children began with higher IQ scores; (2) more than eight times as many children in Alabama live with families receiving welfare; and (3) more Alabama children have no adult male residing in the home. Supplemental data in tabular form include: standard deviations of pretest and posttest means, age means and standard deviations, time interval in weeks, previous Head Start experience, tester reliability, age range and analyses of correlation of IQ to family status. Whether these factors have played a part in the phenomenon studied is actually unknown. Further investigation is needed. (Author/AJ)

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Curricular Intervention in Language Arts Readiness for Head Start Children.

SUPPLEMENT

to the

ANNUAL REPORT TO THE

OFFICE OF ECONOMIC OPPORTUNITY

CONTRACT NUMBER 4123

August 31, 1969

Shuell H. Jones, Ed.D.

Tulane University

PS004434

Tulane University 1968-1969 Intervention Report

Supplementary Data

The fact that the Mississippi children who were a year younger (3½ to 4½) than the Alabama children had scored as high as the Alabama children stimulated further investigation.

One explanation for the younger children of an equal treatment-pair (Mississippi-Alabama) scoring higher on posttesting, is that they began with higher IQ scores.

Supplemental data include: standard deviations of pre-and post means, age means and standard deviations, time interval in weeks, previous Head Start experience, tester reliability, age range and analyses of correlation of IQ to family status, i.e., welfare and no male in household.

Findings:

None of the children in any of the thirteen classes had previous Head Start experience.

Our testers were trained and experienced and to our best knowledge none developed higher or lower scores systematically.

A graph, Table 8, of the actual number of children at the various age ranges supports the age means and standard deviations in the supplement Tables 1 through 6.

Table 7, shows 43 children in Alabama living with families receiving welfare, in comparison to five children in Mississippi. The table also shows 40 children in Alabama have no adult male residing in the household, compared to 14 children in Mississippi. Of the 31 children in Alabama

scoring below 80 on the IQ test, 12 of them were from families either living on welfare or having no adult male residing in the household, while 8 children in Mississippi scored below 80 on the same test and three of these children came from families residing on welfare or having no male in the household.

Whether these factors have played a part in the phenomenon of the younger Mississippi children scoring higher on tests administered than the older Alabama children is actually unknown and suggests a need for further investigation.

TABLE I SUPPLEMENT (See page 36)

Standard Deviations of Pre and Post Means, Age Means,

Time Interval in Weeks on I T P A and STANFORD-BINET

ALABAMA

I T P A

	E 1	E 2	E 3	E 4	E 5	Control 6	Control 7
Post S.D.	39.93	26.56	28.43	20.90	29.58	23.32	42.48
Pre S.D.	39.13	19.29	29.30	19.11	30.89	22.81	41.30
Pre Age Mean	66.91	66.85	65.94	66.57	67.06	66.60	66.43
Pre Age S.D.	2.19	2.60	2.04	1.65	1.98	2.35	2.25
Post Age Mean	72.76	72.14	71.51	72.07	72.53	72.66	72.18
Post Age S.D.	1.78	2.54	2.15	1.81	2.06	2.58	2.22
Initial Time Interval	9	8.5	10	7	10	8	11
Pre-Post Time Interval	27	30	28.5	29	28.5	29	27.5

STANFORD-BINET

	E 1	E 2	E 3	E 4	E 5	Control 6	Control 7
Post S.D.	15.40	9.74	8.78	8.86	8.94	11.74	17.59
Pre S.D.	13.68	14.70	11.10	9.07	9.34	11.01	16.61
Pre Age Mean	66.69	66.14	65.47	66.07	66.56	66.60	65.93
Pre Age S.D.	1.84	2.54	2.18	1.81	2.39	2.61	2.20
Post Age Mean	72.76	72.14	71.41	71.92	72.46	72.66	72.00
Post Age S.D.	1.78	2.54	2.18	1.85	2.13	2.58	2.28
Initial Time Interval	7	6.5	8	6	7	7	9
Pre-Post Time Interval	29	32	30.5	30	30.5	30	29.5

TABLE 2 SUPPLEMENT (See Page 37)

Standard Deviations of Pre and Post Means

on METROPOLITAN Subtests 1, 2, 3

ALABAMA

	E 1	E 2	E 3	E 4	E 5	Control 6	Control 7
1--Word Meaning							
Post S.D.	2.54	.75	1.61	1.79	1.67	1.04	4.12
Pre S.D.	1.77	3.25	1.93	2.10	2.11	1.85	2.12
2--Listening							
Post S.D.	1.56	1.16	2.29	1.21	2.11	1.70	2.11
Pre S.D.	1.94	2.26	2.82	2.78	2.85	1.74	2.71
3--Matching							
Post S.D.	3.15	2.40	2.62	2.65	3.60	2.52	2.11
Pre S.D.	2.65	1.61	1.62	3.47	1.40	2.94	2.32

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TABLE 2 SUPPLEMENT (See Page 38)

Standard Deviations of Pre and Post Means

on METROPOLITAN Subtests 4, 5, 6

ALABAMA

	E 1	E 2	E 3	E 4	E 5	Control 6	Control 7
4--Alphabet							
Post S.D.	5.22	1.87	4.86	4.08	5.00	5.34	5.27
Pre S.D.	3.71	3.53	2.42	2.81	2.08	4.59	1.64
5--Numbers							
Post S.D.	3.51	3.02	2.83	2.72	2.61	3.43	6.54
Pre S.D.	3.37	1.79	2.37	2.65	2.35	2.98	1.94
6--Copying							
Post S.D.	4.67	.75	2.57	1.58	2.41	2.78	2.70
Pre S.D.	2.21	.75	.94	.64	.79	2.64	1.33

TABLE 2 SUPPLEMENT (See page 40)

Standard Deviations of Pre and Post Means, Age Means,

Time Interval in Weeks on METROPOLITAN Total Scores

ALABAMA

	E 1	E 2	E 3	E 4	E 5	Control 6	Control 7
Post S.D.	17.57	14.14	11.46	9.51	12.58	9.75	32.79
Pre S.D.	10.89	11.41	9.29	10.38	7.61	17.84	13.06
Pre Age Mean	67.07	66.57	65.88	66.28	66.75	66.80	66.25
Pre Age S.D.	2.06	2.22	1.96	1.72	2.29	2.65	2.49
Post Age Mean	73.18	71.28	73.72	72.23	73.12	72.91	71.92
Post Age S.D.	1.94	5.43	4.17	1.73	2.09	2.84	3.66
Initial Time Interval	8.5	9.5	11	8	9.5	11	12
Pre-Post Time Interval	27.5	29	27.5	28	28.5	26	26.5

TABLE 3 SUPPLEMENT (See page 41)

Standard Deviations of Pre and Post Means

on GATES-MACGINITIE Subtests 1, 2, 3

ALABAMA

	E 1	E 2	E 3	E 4	E 5	Control 6	Control 7
1--Listening Comprehension							
Post S.D.	2.41	3.35	2.21	1.98	2.93	2.59	3.41
Pre S.D.	2.39	3.62	4.49	2.73	3.04	2.45	2.64
2--Auditory Discrimination							
Post S.D.	3.98	3.15	3.25	2.59	4.58	6.47	3.46
Pre S.D.	2.26	3.98	3.42	2.86	5.16	3.49	3.06
3--Visual Discrimination							
Post S.D.	3.74	1.49	5.95	4.09	5.22	6.43	6.00
Pre S.D.	2.12	2.13	2.59	2.64	1.63	3.82	2.08

TABLE 3 SUPPLEMENT (See page 42)

Standard Deviations of Pre and Post Means

on GATES-MACGINITIE Subtests 4, 5, 6

ALABAMA

	E 1	E 2	E 3	E 4	E 5	Control 6	Control 7
				4--Following Directions			
Post S.D.	1.42	2.37	3.81	2.33	3.68	7.24	2.94
Pre S.D.	2.50	2.96	3.52	3.20	2.77	2.68	2.99
				5--Letter Recognition			
Post S.D.	3.02	4.46	5.97	5.28	6.82	12.73	6.30
Pre S.D.	2.28	1.79	1.37	1.66	.94	4.96	2.25
				6--Visual-Motor Coordination			
Post S.D.	2.83	1.82	4.15	3.59	4.07	4.24	3.90
Pre S.D.	2.02	1.60	2.52	2.02	3.39	4.07	2.56

TABLE 3 SUPPLEMENT (See page 44)

Standard Deviations of Pre and Post Means, Age Means,

Time Interval in Weeks on GATES-MACGINITIE Subtests 7 & 8 and TOTAL SCORES

ALABAMA

	E 1	E 2	E 3	E 4	E 5	Control 6	Control 7
			7--Auditory Blending				
Post S.D.	1.92	2.99	2.02	2.56	2.80	9.74	3.58
Pre S.D.	1.74	2.37	2.21	1.94	1.75	1.98	1.83
			8--Word Recognition				
Post S.D.	2.00	2.11	4.16	4.50	3.82	4.42	4.83
Pre S.D.	3.49	2.11	2.89	3.08	2.65	2.85	3.35
			TOTAL SCORES				
Post S.D.	12.75	15.26	22.10	20.83	26.58	29.50	23.75
Pre S.D.	8.95	10.96	14.72	11.98	16.19	19.86	13.74
Pre Age Mean	67.00	66.71	66.00	65.57	66.75	66.28	66.33
Pre Age S.D.	2.00	2.49	2.09	1.65	2.01	2.61	2.25
Post Age Mean	69.81	68.57	65.53	68.30	73.06	69.00	68.80
Post Age S.D.	4.85	5.85	6.22	5.76	2.08	5.42	5.49
Initial Time Interval	9	10	12	8.5	10	13	11
Pre-Post Time Interval	27	28.5	26.5	27.5	28.5	25.5	26

TABLE 4 SUPPLEMENT (See page 46)

Standard Deviations of Pre and Post Means, Age Means,

Time Interval in Weeks on I T P A and STANDORD-BINET

MISSISSIPPI

I T P A

	E 1	E 2	E 3	E 4	E 5	Control 6
Post S.D.	41.03	29.46	42.16	23.11	31.29	41.07
Pre S.D.	37.93	41.45	39.03	42.24	34.28	35.25
Pre Age Mean	53.76	59.16	57.71	58.37	59.46	55.57
Pre Age S.D.	3.41	7.80	7.53	8.15	5.54	4.97
Post Age Mean	58.42	64.33	63.14	63.00	64.57	60.00
Post Age S.D.	2.56	7.86	8.26	8.43	5.15	4.86
Initial Time Interval	2.5	7.5	6	3	6	6
Pre-Post Time Interval	37.5	32.5	34	37	34	34

STANFORD-BINET

	E 1	E 2	E 3	E 4	E 5	Control 6
Post S. D.	10.45	7.25	9.46	11.40	9.92	15.83
Pre S.D.	15.22	*	8.67	8.14	9.67	15.75
Pre Age Mean	52.38	--	57.84	58.25	58.58	53.92
Pre Age S.D.	2.59	--	8.12	8.20	4.12	5.46
Post Age Mean	58.07	64.16	63.00	64.50	64.14	59.46
Post Age S.D.	2.55	7.64	8.24	6.98	5.00	4.77
Initial Time Interval	2	--	1	2.5	1	2
Pre-Post Time Interval	38	40	39	37.5	39	38

TABLE 5 SUPPLEMENT (See page 47)

Standard Deviations of Pre and Post Means

on METROPOLITAN Subtests 1, 2, 3

MISSISSIPPI

	E 1	E 2	E 3	E 4	E 5	Control 6
			1--Word Meaning			
Post S.D.	2.45	1.55	1.51	1.30	2.53	2.60
Pre S.D.	2.93	1.43	2.15	2.31	2.23	1.35
			2--Listening			
Post S.D.	2.49	2.87	2.46	1.92	2.63	8.79
Pre S.D.	3.54	2.00	3.26	3.81	3.67	1.80
			3--Matching			
Post S.D.	2.09	3.31	2.45	2.29	3.69	9.35
Pre S.D.	1.47	2.15	2.32	1.48	3.57	1.06

TABLE 5 SUPPLEMENT (See page 48)

Standard Deviations of Pre and Post Means

on METROPOLITAN Subtests 4, 5, 6

MISSISSIPPI

	E 1	E 2	E 3	E 4	E 5	Control 6
			4--Alphabet			
Post S.D.	4.03	5.05	5.78	5.09	5.63	6.24
Pre S.D.	1.49	2.45	2.10	4.45	3.33	1.55
			5--Numbers			
Post S.D.	2.57	3.67	3.85	2.96	4.32	3.13
Pre S.D.	1.98	3.25	2.02	3.64	3.65	1.79
			6--Copying			
Post S.D.	1.07	4.31	2.92	2.79	3.02	3.79
Pre S.D.	0	3.50	1.60	3.37	1.68	.83

TABLE 5 SUPPLEMENT (See page 50)

Standard Deviations of Pre and Post Means, Age Means,

Time Interval in Weeks on METROPOLITAN Total Scores

MISSISSIPPI

	E 1	E 2	E 3	E 4	E 5	Control 6
Post S.D.	10.39	15.10	16.22	10.23	19.15	10.86
Pre S.D.	8.30	10.13	11.18	14.57	15.16	5.58
Pre Age Mean	53.92	59.08	59.41	58.50	59.92	55.46
Pre Age S.D.	3.33	8.02	8.46	8.10	5.23	5.12
Post Age Mean	58.57	64.75	63.57	63.37	64.07	60.26
Post Age S.D.	2.34	7.81	8.24	8.29	6.56	4.83
Initial Time Interval	4	4	5	2.5	5.5	6
Pre-Post Time Interval	36	36	35	37.5	34.5	34

TABLE 6 SUPPLEMENT (See page 51)

Standard Deviations of Pre and Post Means

on GATES-MACGINITIE Subtests 1, 2, 3

MISSISSIPPI

	E 1	E 2	E 3	E 4	E 5	Control 6
			1--Listening Comprehension			
Post S.D.	3.48	2.46	3.79	3.11	4.06	3.48
Pre S.D.	2.67	4.04	2.50	4.10	2.46	2.21
			2--Auditory Discrimination			
Post S.D.	4.33	3.84	5.50	2.12	4.45	3.57
Pre S.D.	3.90	4.31	4.53	5.08	4.37	5.25
			3--Visual Discrimination			
Post S.D.	3.72	4.18	4.76	4.17	5.64	4.05
Pre S.D.	1.33	3.52	2.26	3.37	4.12	.82

TABLE 6 SUPPLEMENT (See page 52)

Standard Deviations of Pre and Post Means

on GATES-MACGINITIE Subtests 4, 5, 6

MISSISSIPPI

	E 1	E 2	E 3	E 4	E 5	Control 6
			4--Following Directions			
Post S.D.	2.52	2.41	3.47	2.53	2.97	3.79
Pre S.D.	2.53	2.80	2.42	2.35	3.60	2.70
			5--Letter Recognition			
Post S.D.	6.59	5.01	6.22	5.33	6.10	5.91
Pre S.D.	1.80	2.54	2.37	4.94	3.22	1.16
			6--Visual-Motor Coordination			
Post S.D.	3.20	4.96	4.97	4.22	4.86	2.44
Pre S.D.	1.23	2.28	2.20	4.40	2.70	5.52

TABLE 6 SUPPLEMENT (See page 54)

Standard Deviations of Pre and Post Means, Age Means,

Time Interval in Weeks on GATES-MACGINITIE Subtests 7 & 8 and TOTAL SCORES

MISSISSIPPI

	E 1	E 2	E 3	E 4	E 5	Control 6
			7--Auditory Blending			
Post S.D.	2.14	3.34	1.51	2.71	2.58	2.80
Pre S.D.	1.86	3.06	2.28	2.61	1.83	1.33
			8--Word Recognition			
Post S.D.	3.02	4.23	3.56	2.06	5.48	2.85
Pre S.D.	2.98	2.87	2.12	3.83	3.42	3.67
			TOTAL SCORES			
Post S.D.	24.50	25.08	28.61	19.37	30.97	21.57
Pre S.D.	13.36	19.71	15.68	26.16	20.36	18.43
Pre Age Mean	51.14	57.00	58.07	57.12	58.85	54.28
Pre Age S.D.	2.50	7.62	7.77	8.27	5.40	4.79
Post Age Mean	57.84	64.91	63.07	63.12	65.07	60.20
Post Age S.D.	2.51	7.76	9.34	8.35	5.21	4.88
Initial Time Interval	4.5	5	5.5	3	5	6
Pre-Post Time Interval	35.5	35	34.5	37	35	34

TABLE 7

Test of Correlation Between Low Test Scores of Samples

and Parents on Welfare

and No Male Adult in Household

TREATMENT:	Total no. in Class:	Welfare:	IQ Below 80:	No Male:	IQ Below 80:	Total in Class--Post IQ Below 80:
Miss. E1	14	3	--	3	--	2
Ala. E1	15	5	--	3	--	2
Miss. E2	12	2	--	3	--	--
Ala. E2	7	0	--	1	--	3
Miss. E3	14	0	--	1	--	2
Ala. E3	14	6	--	8	2	4
Miss E4	8	0	--	0	--	--
Ala. E4	16	11	3	8	3	5
Miss. E5	15	0	--	4	2	3
Ala. E5	16	10	5	10	4	6
Miss. Cont.	15	0	--	3	1	1
Ala. Cont.	14	4	2	5	--	8
Ala. Cont. 2	14	7	2	5	2	3
TOTAL MISS.	78	5	0	14	3	8
TOTAL ALA.	96	43	12	40	11	31

TABLE 8

AGE RANGE BY TREATMENT

(all samples as of 10/1/69)